

GEORGE ENGELMANN
BOTANICAL NOTEBOOKS

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621-6

P. Lansa

government is brought before Congress, member after member of that distinguished body floods it and the country with sentimental effusions upon the sacred obligations of Indian treaties, and our duty to uphold and protect the Indians in all their rights. If those who use such arguments mean binding treaties, and *legal* or equitable rights, then I agree with them. But if they mean the right which the Indian claims, to steal everything he can lay his hands upon, and to murder and scalp western pioneers upon our borders, then I say they are wrong. But I deny that there is any treaty existing between the United States and any Indian tribe, within the territory of Oklahoma, which conflicts with the establishment, at once, and without the consent of the Indians, of a territorial government over it. The last treaties made, in 1866, with the principal tribes occupying it, expressly provide for such legislation over it as "Congress and the President of the United States may deem necessary."

The enemies of the organization of the territorial government, and who deny that Congress has the power claimed, rely upon the 5th article of the treaty between the United States and the Cherokee Indians, made in 1835, and which is in these words: "It is agreed that the lands ceded to the Cherokee Nation, in the foregoing article, shall, in no future time, without their consent, be included within the territorial limits or jurisdiction"

fol. 1 man write
pollen 0.060 - 0.075 mm



0 1 2 3 4 5 6 7 8 9 10

cm

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on the part of Congress to invade the provisions of the treaty last referred to, expressly declares that the act of Congress and the treaty are in conflict, but, notwithstanding, the act is binding, and our revenue laws are in full force and operation throughout the territory. The case is reported in 11 Wallace. Not doubting the power of Congress to organize the territorial government suggested, and that without the violation of any treaty stipulation or moral principle, and believing that the interests and safety of our people, the claims of humanity and a just regard for the welfare of the Indians themselves, all demand it, I urge upon you the propriety of instructing our Senators and requesting our Representatives in Congress to support a bill for that purpose.

LOUISIANA AND STATE SOVEREIGNTY.

I can not allow myself to pass without notice, in this communication, the unsurpassed outrages committed so recently upon the rights of Louisiana as one of the sovereign States of the American Union, if not at the instance, at least by the consent, of the President of the United States. We have seen a district judge, without a shadow of authority, backed by Federal soldiers, hurling from office the duly elected servants of the people and substituting in their places the

still



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cm

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Pinus densa Chapm. - Herb

May 12 1875

Apalachicola



margin
of leaf
x 60

sect. of leaf x 30



margin
x 30

x 2

187

187

leaves 2 - 3 1/4 inch

long

1/2 line wide

sheath (old?) 2 1/2" long

(umbo)

scales 1/2 inch wide
1/4 high

Cone sessile, depressed 1/4 inch diam. 3 1/2 inch long
scales 2 1/3 order, with strong
transverse ridges, stout sharp prickles
horizontal or mostly a little bent upwards



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cm

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ST. LOUIS, MO.

No.

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Date,

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Pinus inops var *clausa*

May 19 1875

Chapman in herbar

Apalachicola

A.W. Chapman in

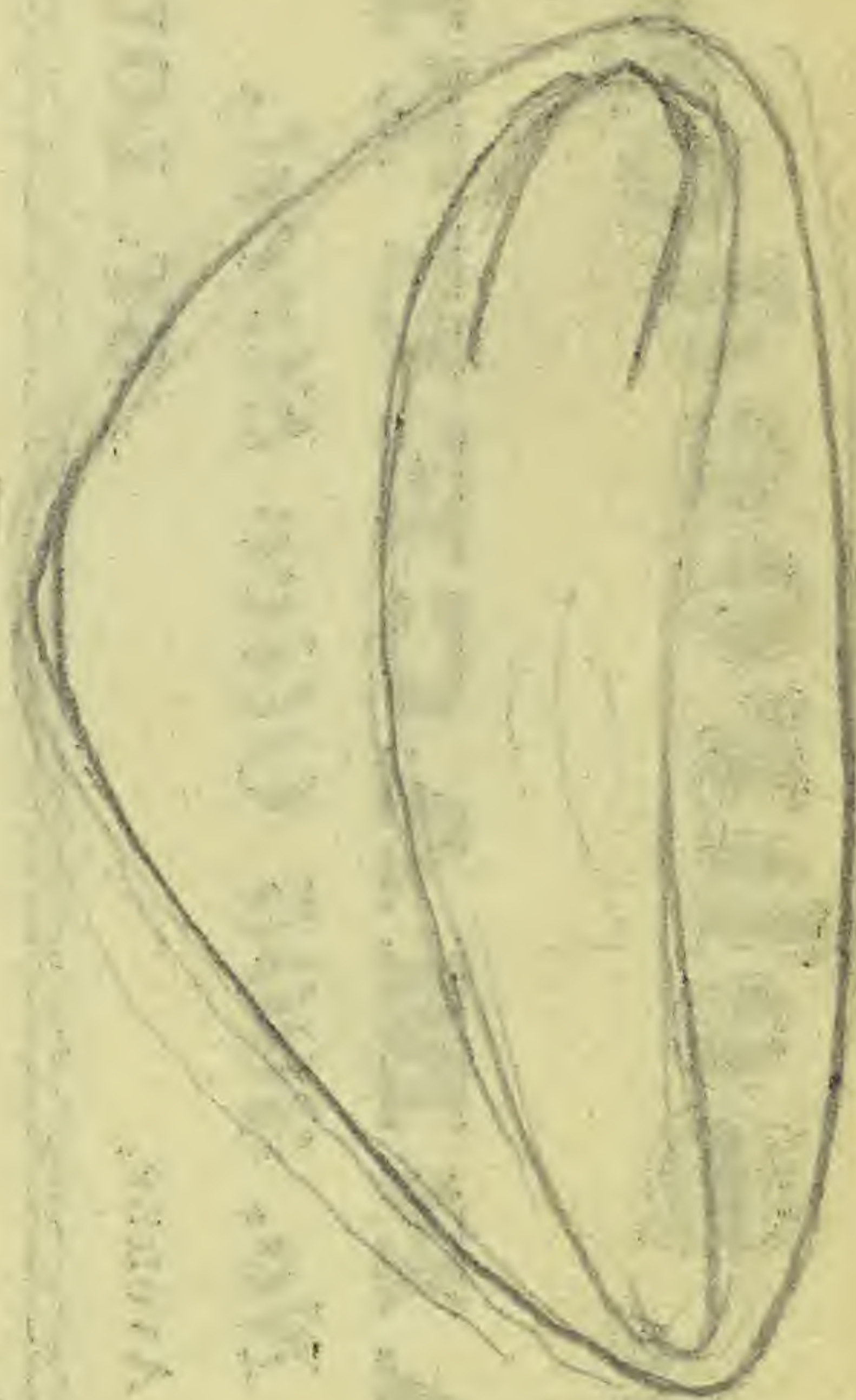
x4



x10



x2

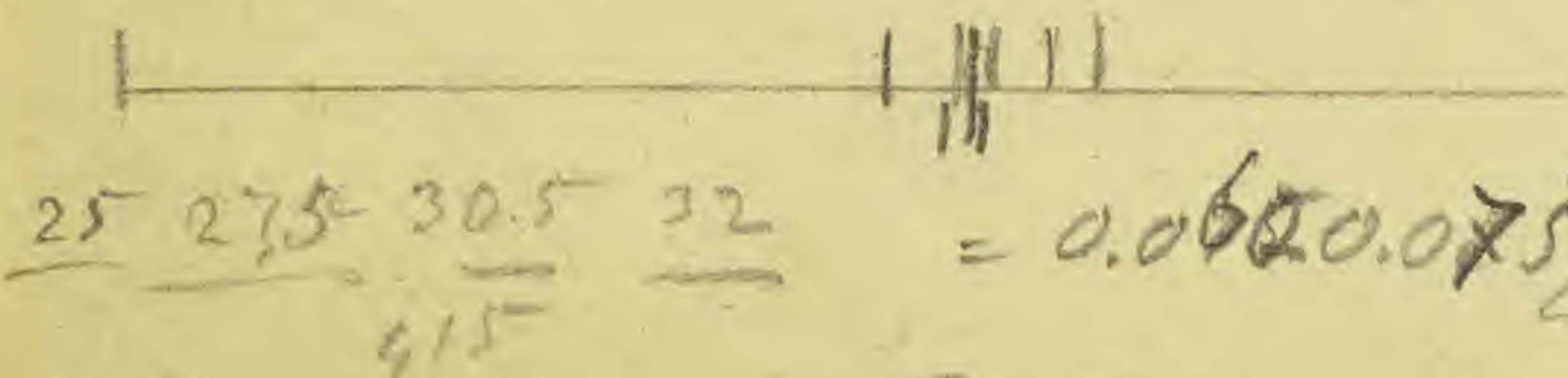


ventral or upper side
stamens in 9 rows?

10-11
scales

wing covering outside
of seed almost
entire

albumen
embryo



= 0.0625 0.075ⁱⁿ

0.07^{mean}
pollen

Pollen grains

x10
3 with 4 costyl
1 - 5 -



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cm

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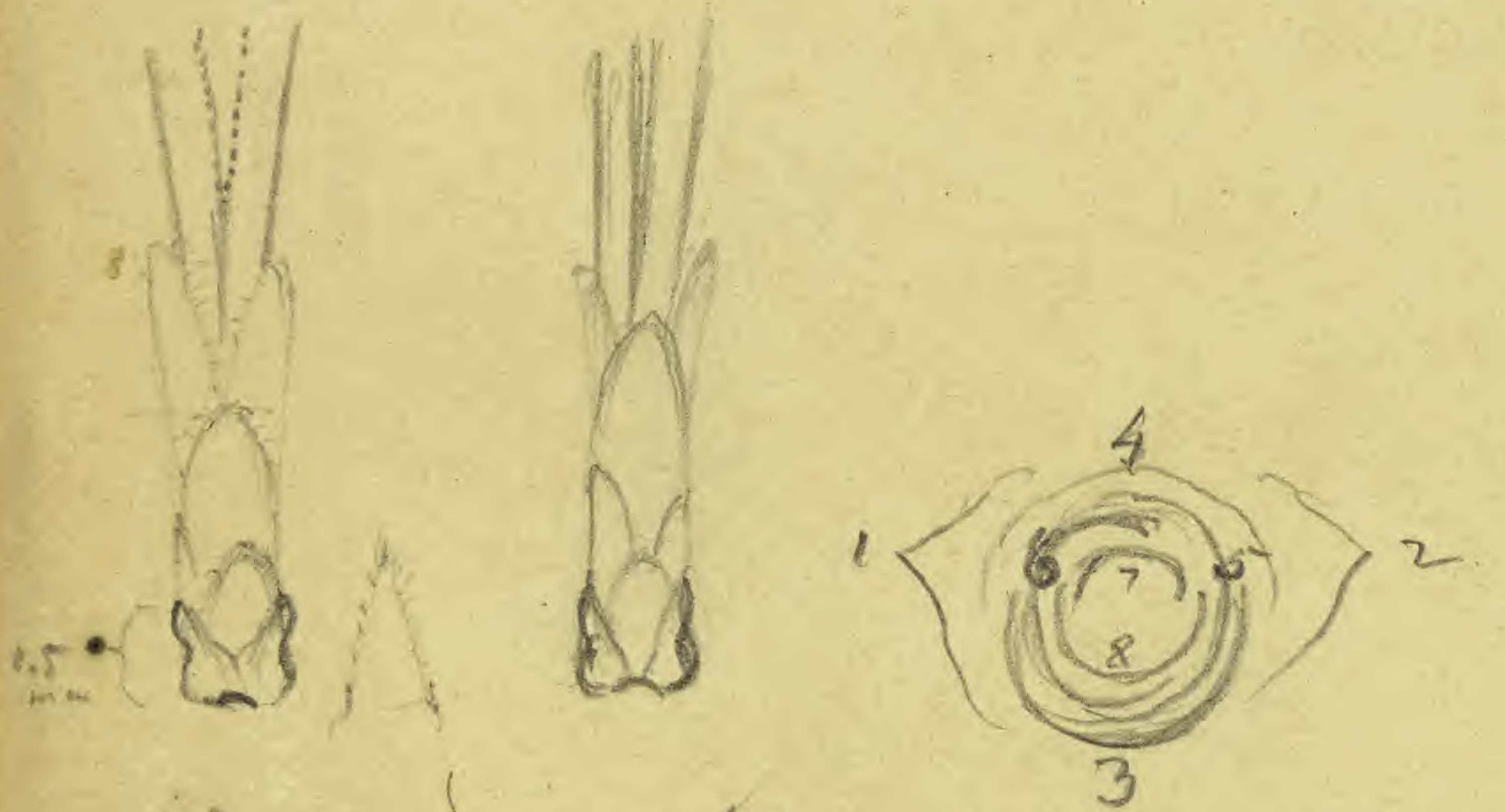
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Pinus clausa

May 22 1875

Apalachicola May 1875

young sheaths of
this spring. x4



dorsal

ventral

sheath of leaves

& or 10 bracts

bract soon
deciduous
half as long as sheath



0
cm

1

2

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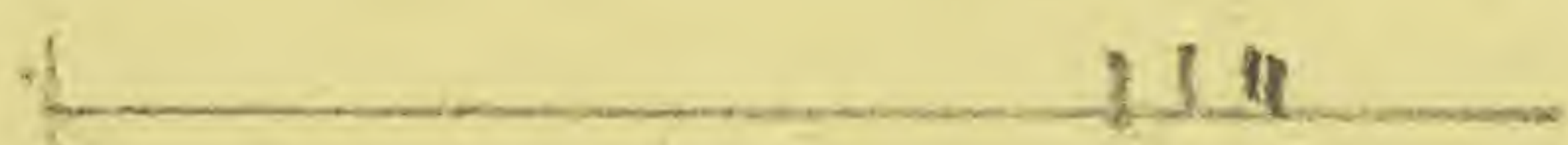
Pinus clausa

June 5 1879

Apalachicola, Florida

Chapman log & resin

x 4



very old Pollen

$$\frac{26-30}{415} = 0.063 - 72 \text{ mm}$$

10 involucral
scales
outer half as long
as inner

8 series of stamens

old dry ament, soaked

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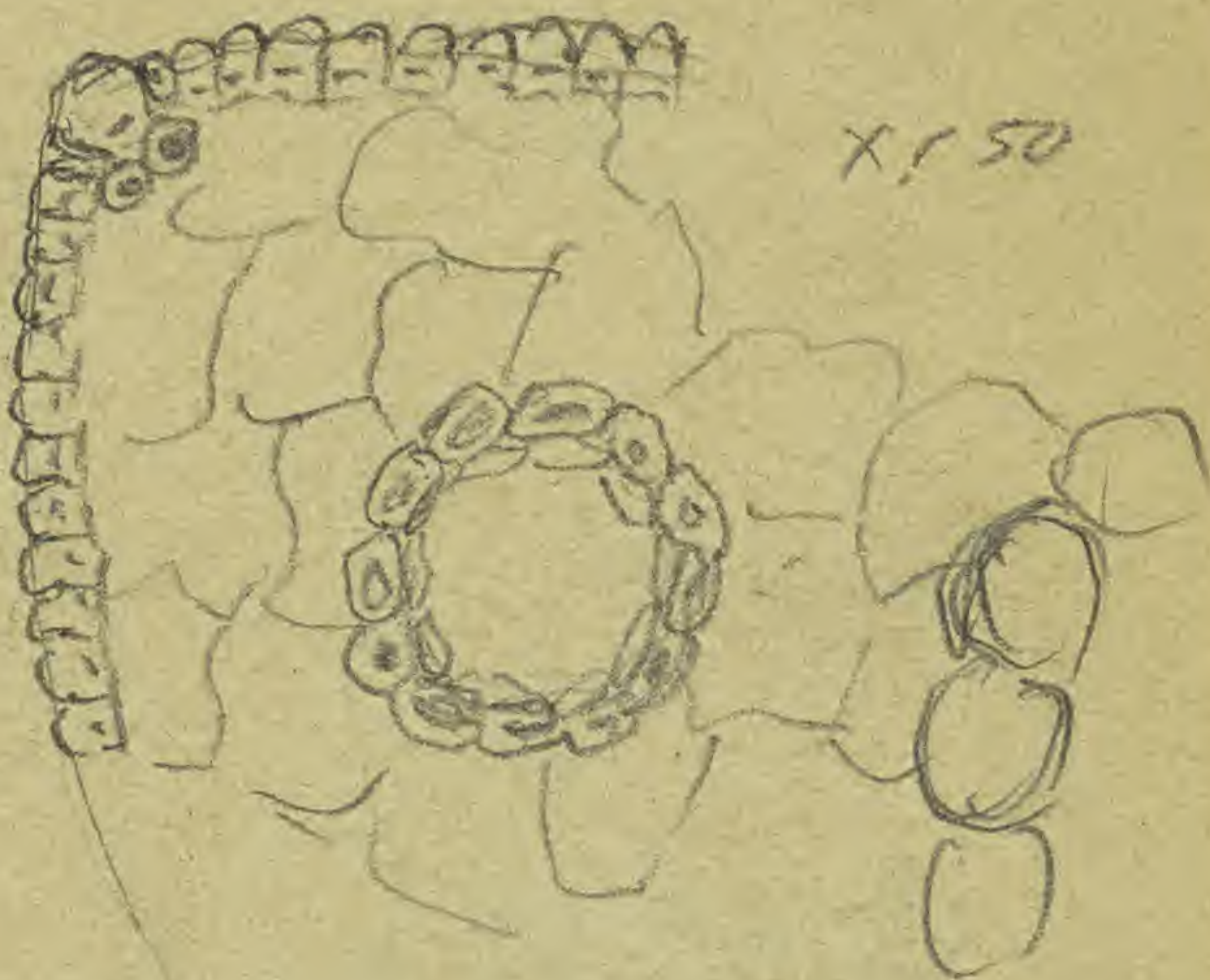
P. clausa
Apulchridale, Chapin

May 21 1878

x 30



x 60



x 50

hypoderm scarcely
any, few cells or none
at the angles -
weak, thin walled cells
around ducts

upper surface of leaf sometimes
folded, wrinkled or ridged



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cm

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Cor. 5th
and
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Philopis clavata

March 4 1880

Cedar Keys, Florida

Sargent 1880

x 30



0

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cm

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Pinus Pinaster

627-36

reins zur Beförderung des Gartenbaues, 1860, Nos. 1-52—1861, Nos. 1-6, Berlin, *from the Society*; Atti della Societa Ital. di Scienze Nat., Milano, Vol. II., Fasc. 2, 1860, *from the Society*; Atti dell I. R. Istituto Veneto, T. V., Ser. iii., Disp. 10—T. VI., Ser. iii., Disp. 1-3, 1860-1, *from the Society*; Visir- und Recheninstrumente von Ernst Sedlacek, Wien, 1856,—Rechenischeber, von E. Sedlacek, Wien, 1856,—Kompendium der ebenen und sfärischen Trigonometrie von E. Sedlacek, Wien, 1856, *from Mr. Senoner*; L'Ortolano, Giornale Popolare d'Orticoltura, Trieste, Anno I. 1-12, III. 1-9, 1859-60,—Allocuzione da Prof. Adolfo Stopice, Trieste, 1860, *from the Society*; Fr. Ambrosii Flora Tiroliae Australis, Vol. II., Pt. 4, *from the Author*; Verhandl. des Naturh. Vereins, Bonn, Jahrg. XVII., 1-2, 1860, *from the Society*; Sitzungsab. der K. K. Akad. der Wissenschaften, Wien, Band XLII., No. 22-28, 1860, *from the Society*; Nachrichten von der Georg-Augusts-Univ. u. der K. Gesellsch. der Wissensch., Göttingen, 1860, No. 1-29, *from the Society*; Bull. de la Société Linnéenne de Normandie, Vol. V., 1859-60, Caen, 1861, *from the Society*; Mém. de l'Acad. Imperiale de Metz, Ann. XL. 1., 1859-60, *from the Academy*; Jahrbücher des Vereins für Naturk. in Nassau, XIV. Heft, Wiesbaden, 1859, *from the Society*; Dr. J. C. Ed. Hoser's Rückblicke, Prag, 1848, von Dr. Weltenweber,—Sitzungsab. der K. böhm. Gesellsch. der Wissenschaften, Prag, 1859, Juli-Dec.—1860, Jan.-Juni, *from the Society*; I. Bericht des Offenbacher Vereins für Naturk., 1860, *from the Society*; Würzburger Medicin. Zeitschrift, II. Band, 1-2 Heft, 1861, *from the Society*; Der Zoologische Garten, von Dr. D. F. Weinland, Jahrg. II., No. 1-6, 1860-61, *from the Editor*; XX. Bericht über das Museum Francisco-Carolinum, Linz, 1860, *from the Institution*; Monatsab. der K. Preuss. Akad. der Wissenschaften, 1860, Berlin,—General Register, 1836-58, Berlin 1860, *from the Academy*; Gelehrte Anzeigen, Vol. 49 & 50,—Sitzungsab. des K. bayer. Akad. des Wissenschaften, 1860, Heft 1-3, München,—Verzeichniss der Mitglieder, 1860,—Bedeutung der Sanskritstudien, von Dr. Wilh. Christ, 1860,—Denkrede auf. Alex. von Humboldt, von C. F. P. von Martius, 1860,—Grenzen und Grenzgebiete der physikalischen Forschung, von Dr. C. Harless, 1860, *from the Royal Academy*; Proceedings of the Nat. Sciences, Philad., May, 1860, *from the Academy*; 43d Anr. of the Trustees of the New York Society of Naturalists, 1860.



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Dr. Koch presented specimens of quartz and of the silicious conglomerate from Madison County mentioned in Dr. Hilgard's letter.

Dr. Engelmann stated that the mean temperature of July (77.5) had been lower than the usual mean of that month, and that the fall of rain during the same month (2.04 inches) was about one-half less than usual.

Dr. Wislizenus stated that the mean of atmospheric electricity of July had been 3.5° less than that of the month previous, and that the amount had been gradually decreasing since winter.

—
August 19, 1861.

The President, Dr. ENGELMANN, in the chair.

Six members present.

A letter was read from A. F. Bandelier, Jr., Highland, Ill., Aug. 1, 1861, communicating meteorological observations at Highland.

The following donations to the library were received:

Bull. de la Société Géologique de France, Ser. ii., T. XVIII., Feuilles 13-14, 22-31, Paris, 1861, from the Society; Proc. Amer. Phil. Society, Philad., Vol. XVIII., No. 65, 1861, from the Society; Jour. Franklin Inst., Philad., Aug. 1861, from the Institute; Proc. Acad. Nat. Sciences, Philad., June, from the Institute; Maximilian I. König von Bayern, Obe- ister V von F oh. Gistel.

Der Zoolog...
1860-61, from the...
Sitzungsb. des K. bayer...
Verzeichniss der...
C. F. P. von Wilh. Christ...
F. von Martius

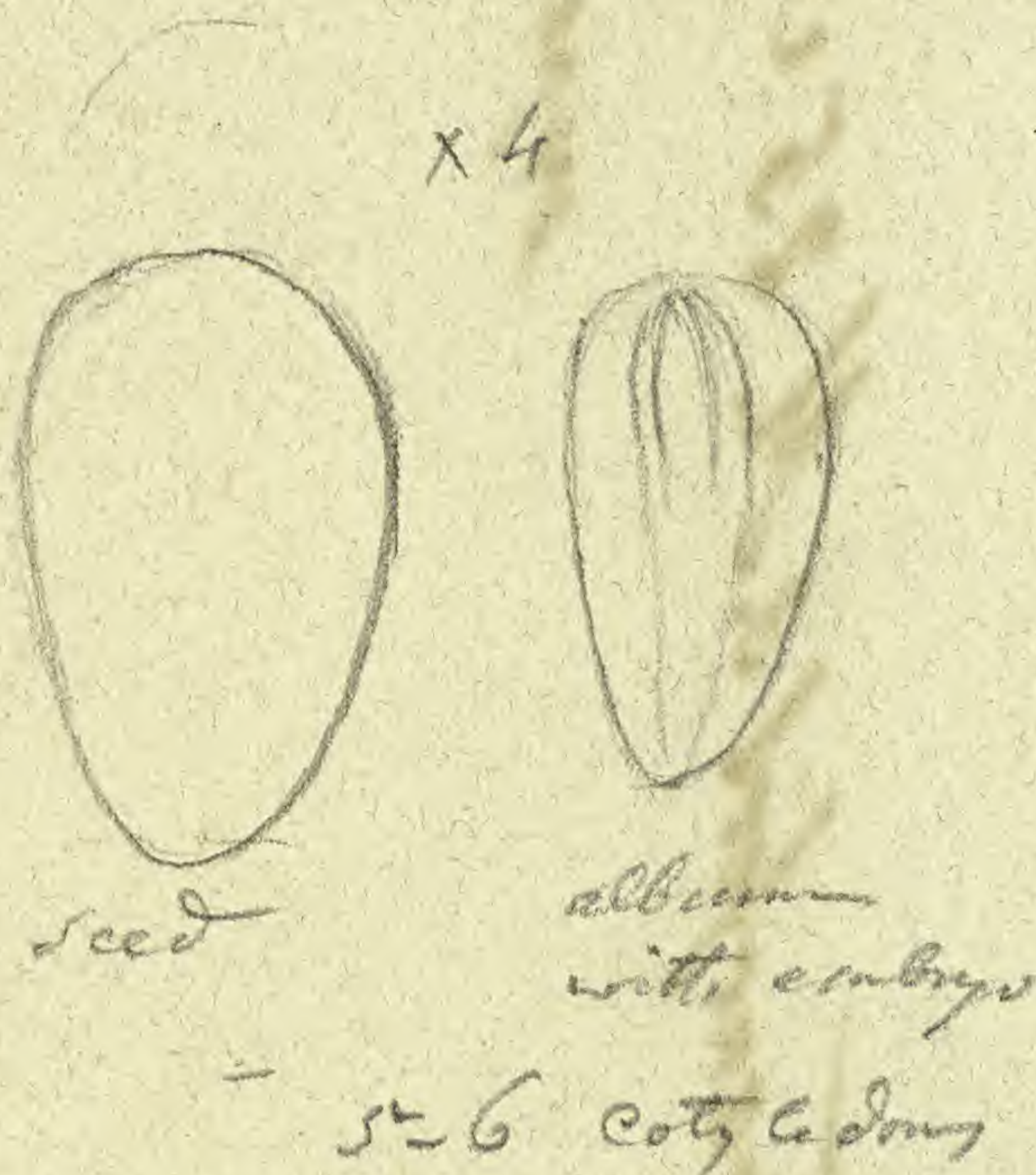
P. Martius



Pinus Pinaster

Florence Oct 15 68

Sestri Oct 23



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cm

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Décla.

Un Paquet en papier, cont
vingt francs, à

M^r George Engel
par Addr. M^r Henry. Ny

Francfort s. M. 25 Sept. 1860

expédié par



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P. pinaster
sub nom. *maritima* — H. B.
Wisconsin, May 1870



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Pinus Pinaster

Sept 12 1877

Cult at San Jose Calif

Dr Aggrey

Sept 1877

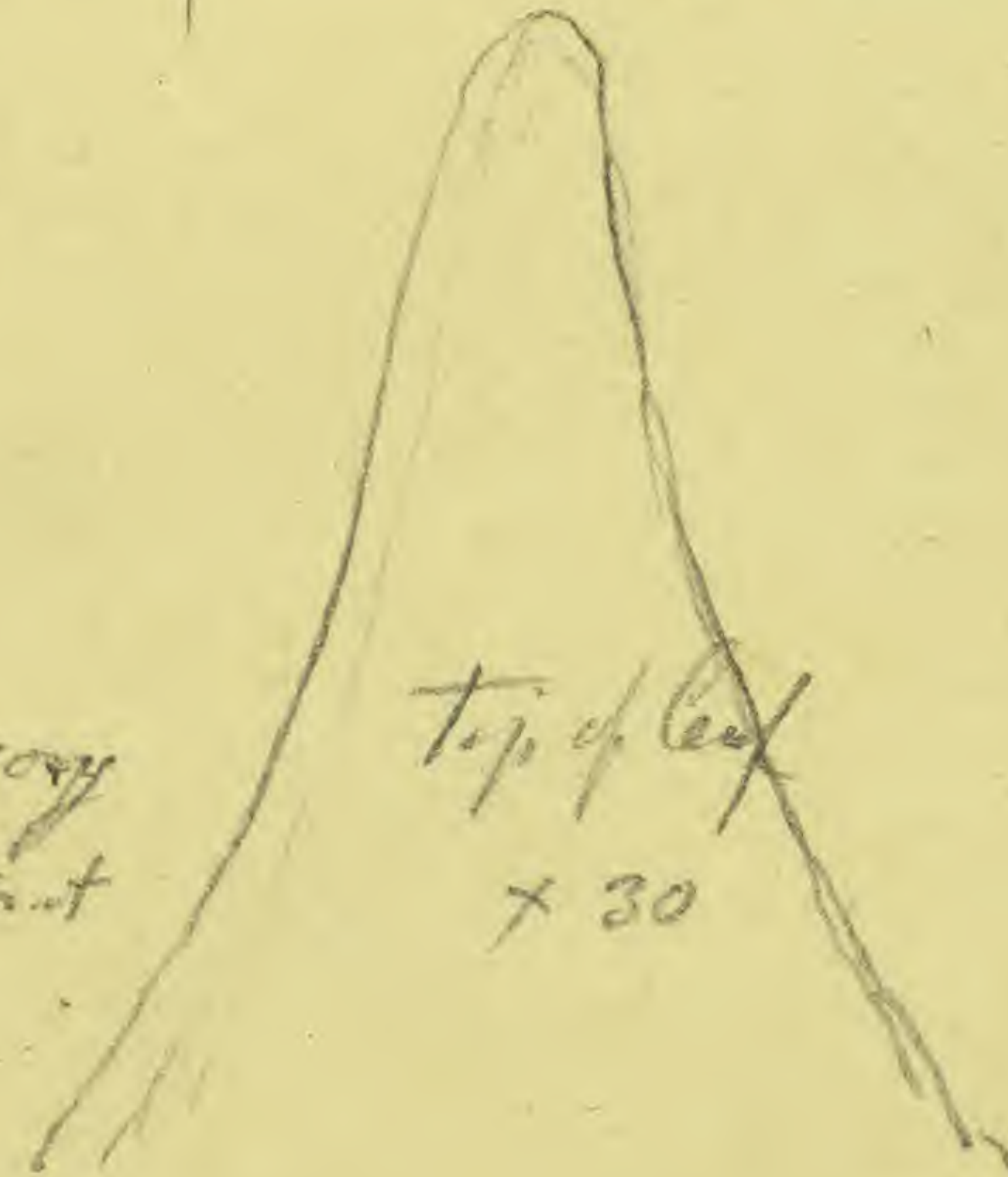
x30



accessory
not constant

Top of leaf

x30



x150



Duct

sheath

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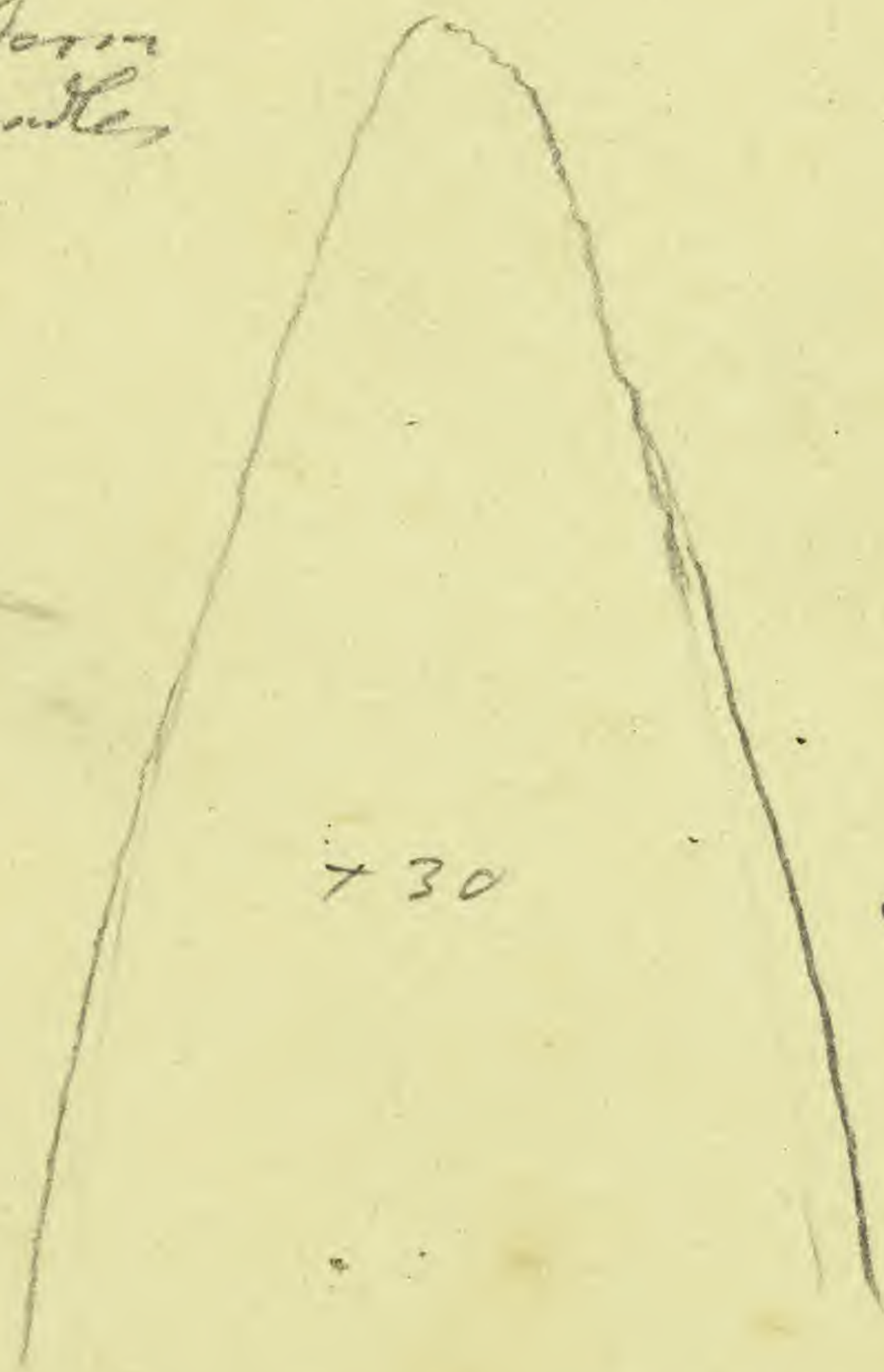
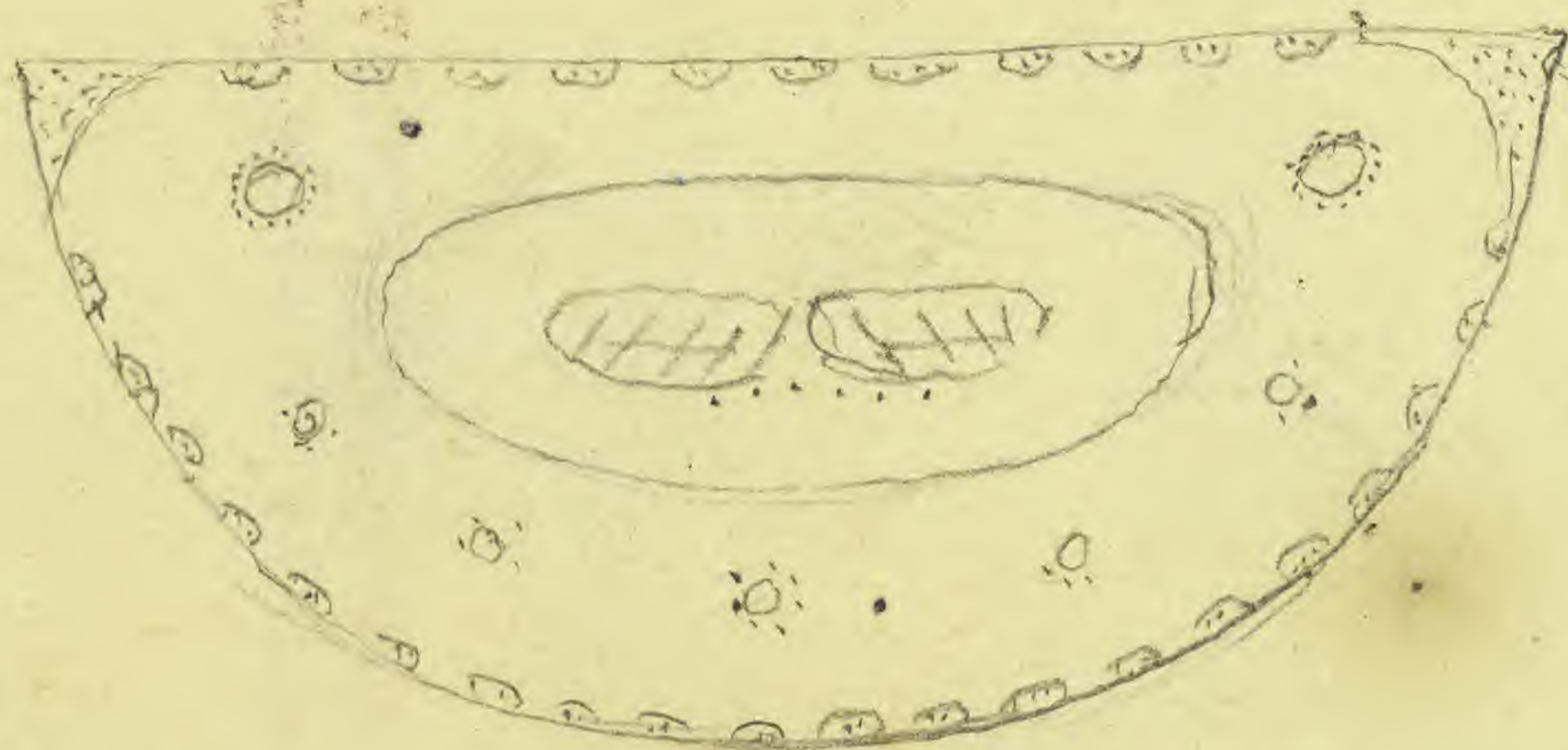
Pinus Pinaster

Florence 1868

May 13 1879

10-12 series above
20 below, as many hypoderm
bundles

x 30



x 60

only 2 upper, or sometimes
3-5 additional lower ducts
all parenchymatous
surrounded by hypoderm cells
a few cells also below vessels
in sheath - numerous (10-12 above
18-20 below) rows of stomata and between
them strong bundles. Edges sharp



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Leaves 5-6" stout (Paris)
4-4½ slender (Kew)

P. P. Parlatou
Paris 1832

young sheath 9" (Kew)

old — ~~4"~~ at least 2"

Bracts very strongly pruned, very deciduous, leaf's
square base present

Axis of male inflorescence 1½-2"; that of female ^{years}
square with the bases of the bracts

Leaf crowded - 1½ inch thick, cylindrical - oval

Bracts deciduous early.

Axis 6-7 l. long, stiped

Invol of 3 almost equal scales - 2 lateral

ones very strongly carinate. upper one petiole
all at base of stipe - once seen a 4th lower one
higher up - near anthers, probably an ^{posterior} anther. (bracts)

Young shoots with herbaceous leaves, subulate primary leaves



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01 6 8 2 9 9 4 3 2 1 0



cm

Pinas maritime Link

next = *Pinas*

P. maritime Lamb. Publ. 181 = *Pothycusa* Carr

Art. = *P. Lario* Publ. 179 (395)

Lamarck = *P. Phaster* Ed. 168

JOURNAL OF PROCEEDINGS.

161

reins zur Beförderung des Gartenbaues, 1860, Nos. 1-52—1861, Nos. 1-6, Berlin, *from the Society*; Atti della Societa Ital. di Scienze Nat., Milano, Vol. II., Fasc. 2, 1860, *from the Society*; Atti dell I. R. Istituto Veneto, T. V., Ser. iii., Disp. 10—T. VI., Ser. iii., Disp. 1-3, 1860-1, *from the Society*; Visir-und Recheninstrumente von Ernst Sedlaceh, Wien, 1856,—Rechenschieber, von E. Sedlaceh, Wien, 1856,—Kompendium der ebenen und sfärischen Trigonometrie von E. Sedlaceh, Wien, 1856, *from Mr. Senoner*; L'Ortolano, Giornale Popolare d'Orticultura, Trieste, Anno I. 1-12, III. 1-9, 1859-60,—Allocuzione da Prof. Adolfo Stopice, Trieste, 1860, *from the Society*; Fr. Ambrosii Flora Tiroliæ Australis, Vol. II., Pt. 4, *from the Author*; Verhandl. des Naturh. Vereins, Bonn, Jahrg. XVII., 1-2, 1860, *from the Society*; Sitzungsab. der K. K. Akad. der Wissenschaften, Wien, Band XLII., No. 22-28, 1860, *from the Society*; Nachrichten von der Georg-Augusts-Univ. u. der K. Gesellsch. der Wissenschaften, Göttingen, 1860, No. 1-29, *from the Society*; Bull. de la Société Linnéenne de Normandie, Vol. V., 1859-60, Caen, 1861, *from the Society*; Mém. de l'Acad. Imperiale de Metz, Ann. XLI., 1859-60, *from the Academy*; Jahrbücher des Vereins für Naturk. in Nassau, XIV. Heft, Wiesbaden, 1859, *from the Society*; Dr. J. C. Ed. Hoser's Rückblicke, Prag, 1848, von Dr. Weitenweber,—Sitzungsab. der K. böhm. Gesellsch. der Wissenschaften, Prag, 1859, Juli-Dec.—1860, Jan.-Juni, *from the Society*; I. Bericht des Offenbacher Vereins für Naturk., 1860, *from the Society*; Würzburger Medicin. Zeitschrift, II. Band, 1-2 Hefte, 1861, *from the Society*; Der Zoologische Garten, von Dr. D. F. Weinland, Jahrg. II., No. 1-6, 1860-61, *from the Editor*; XX. Bericht über das Museum Francisco-Carolinum, Linz, 1860, *from the Institution*; Monatsb. der K. Preuss. Akad. der Wissenschaften, 1860, Berlin,—General Register, 1836-58, Berlin 1860, *from the Academy*; Gelehrte Anzeigen, Vol. 49 & 50,—Sitzungsab. des K. bayer. Akad. der Wissenschaften, 1860, Heft 1-3, München,—Verzeichniss der Mitglieder, 1860,—Bedeutung der Sanskritstudien, von Dr. Wilh. Christ, 1860,—Denkrede auf Alex. von Humboldt, von C. F. P. von Martius, 1860,—Grenzen und ... der physikalischen Akademie; P. Harless, 1860

P. maritime Pall. = *P. Lario* var. Ed. 179

= *P. Pallasiana* Lamb.

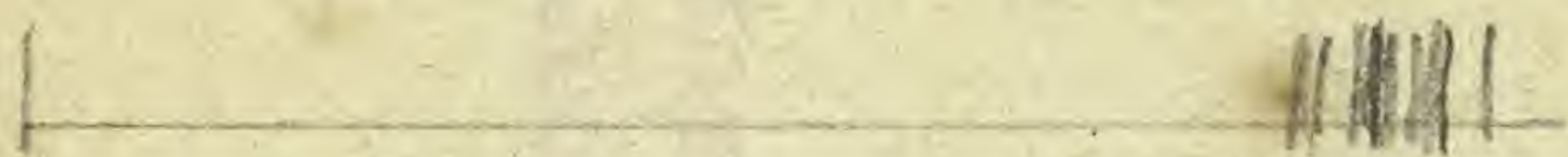
Carré 389

May 31 1865

Pinus marit

Pollen

Germentown Pa, Mecher



0.041 - 0.047 lin
average 0.044 lin



5 x 6 perigonal scales; the 5th & 6th higher up on the stipe



0 1 2 3 4 5 6 7 8 9 10

cm

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"Pinus mantima" (2 leaves)

May 1863

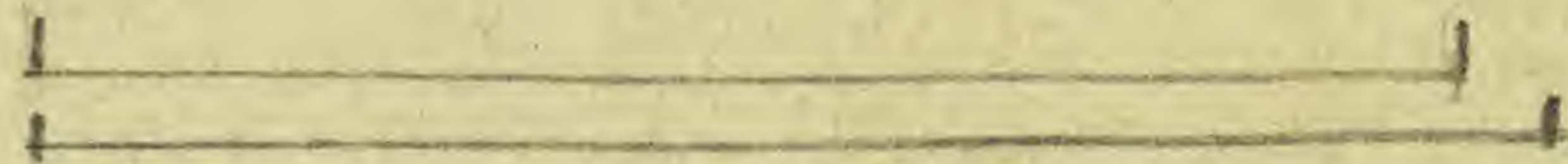
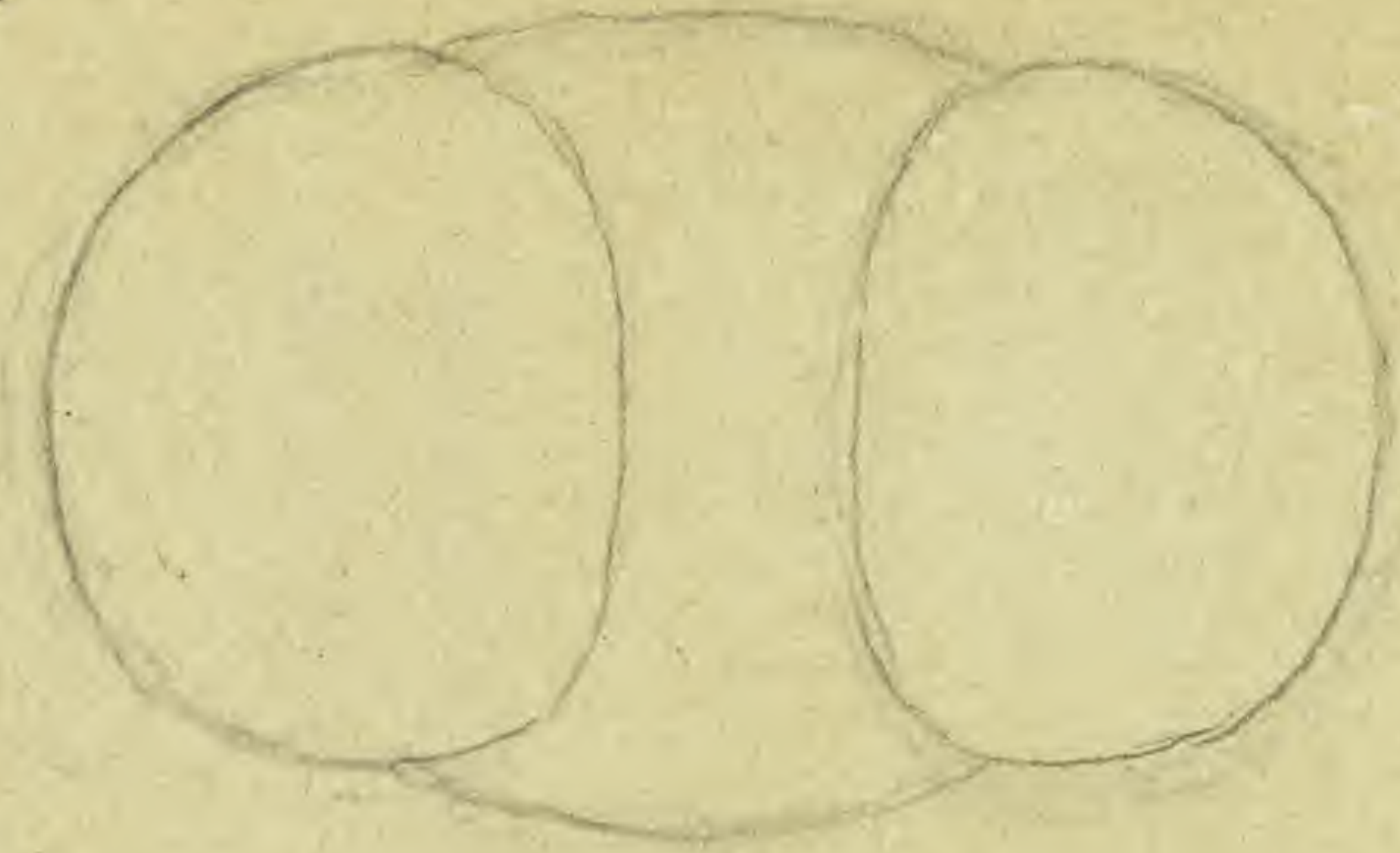
H.B. Mission. May 11 1863

male fl. in elongated spike

rose red,

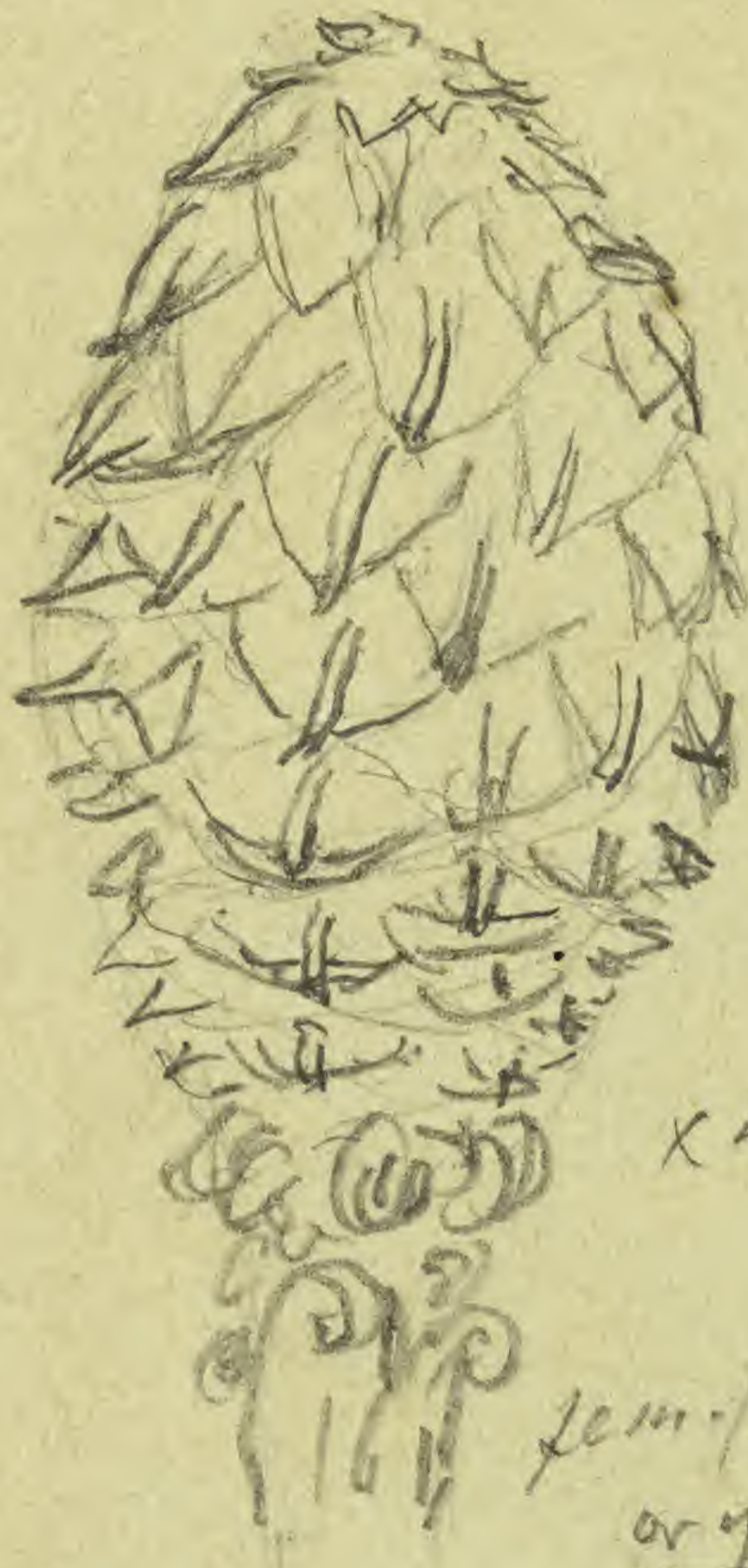
tips darker

x415



size of Pollen x415

0.047-0.050



x4

sem-annent
or young fruit



x10



bract
reflexed
scale as bract.



lateral



May 23

x4



x10



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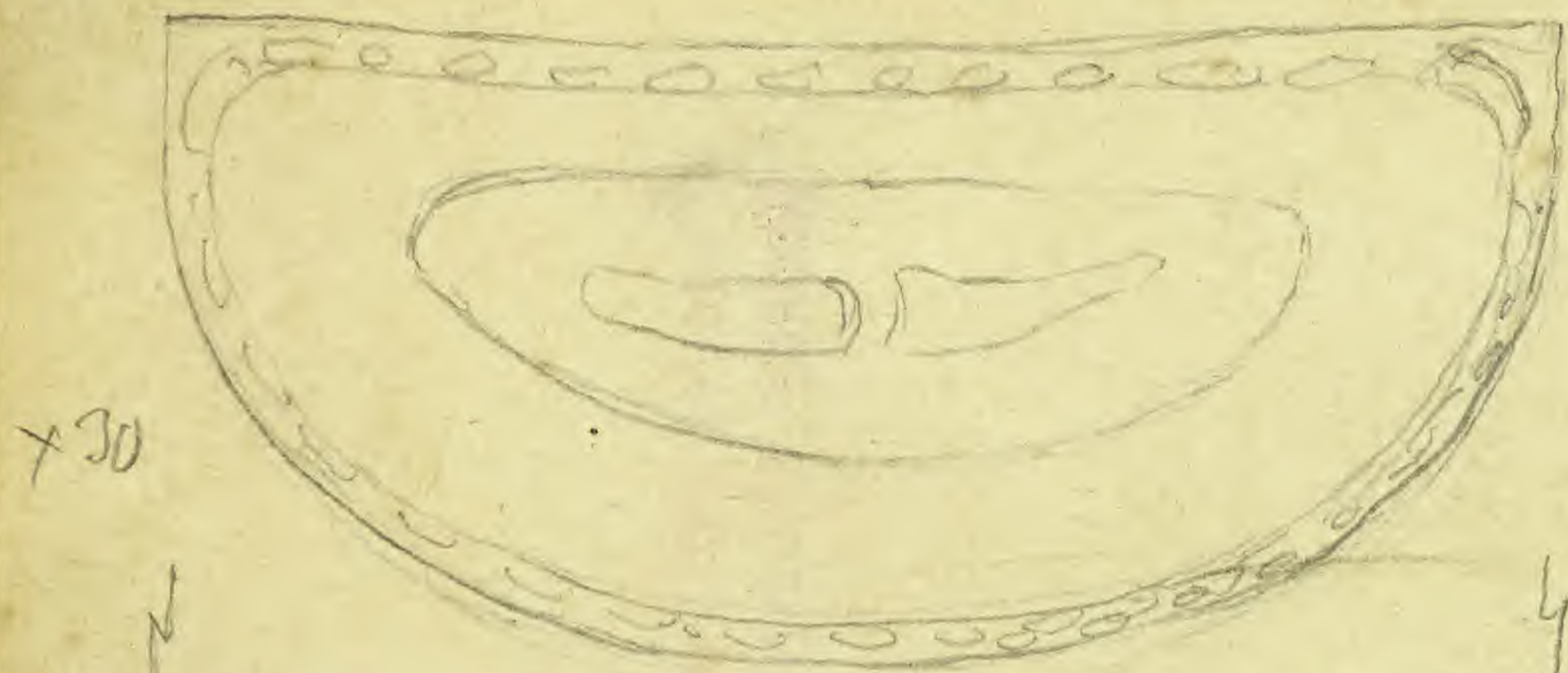


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"Pinus maritime"

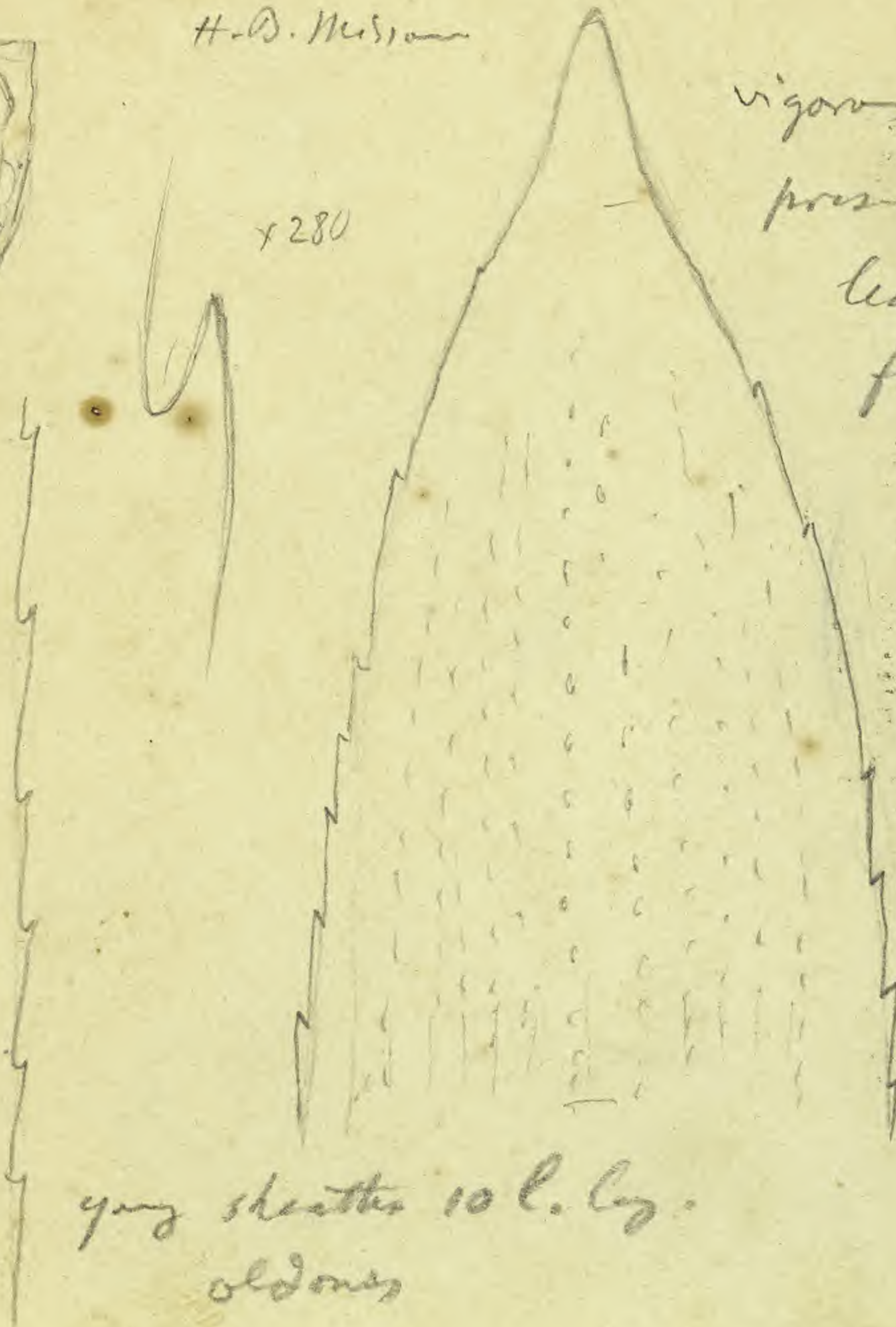
Aug. 1863

H.B. Mission



x30

x280



vigorous shoot of the
past year -
leaves 5" long
fully 1. l. wide
finely serrate

young shoots 10 l. long
old ones



0
cm

1

2

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Pollen size



$\frac{18-20.6 \text{ lin}}{415}$

0.043 - 0.048

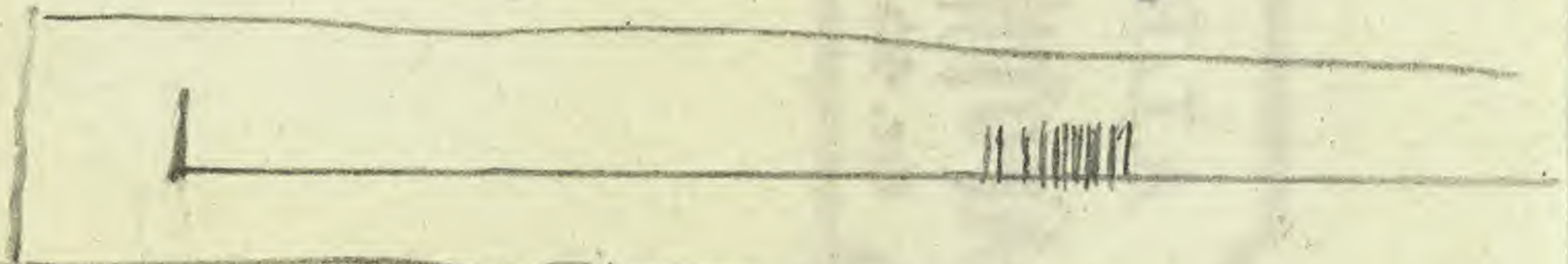
mostly 0.046 - 0.047

Male spike's axis 2 - 2 1/2 inches long
10-11 lines thick
cones 5-6 lines long

"*Pinus maritima*"

H.B. Merriam 25 May
1864

(late spring) post-flowering
plant had suffered during the
late cold winter, upper
part of bushy young tree killed,
flowers on lower branches,
all 2 feet above ground



"*Pinus torbansensis*"
Cedrus libani

killed
nearly so

Pollen size May 7
1865

nearly passed flowering

$\frac{18-21}{415}$ 0.044 - 0.057
Lin



0 1 2 3 4 5 6 7 8 9 10

cm

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CHEMIST



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APOTHECARY & CHEMIST,
Cor. 4th and Olive Sts., St. Louis.



ALL THE NEW REMEDIES
CONSTANTLY ON HAND

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

11738



0 1 2 3 4 5 6 7 8 9 10

cm

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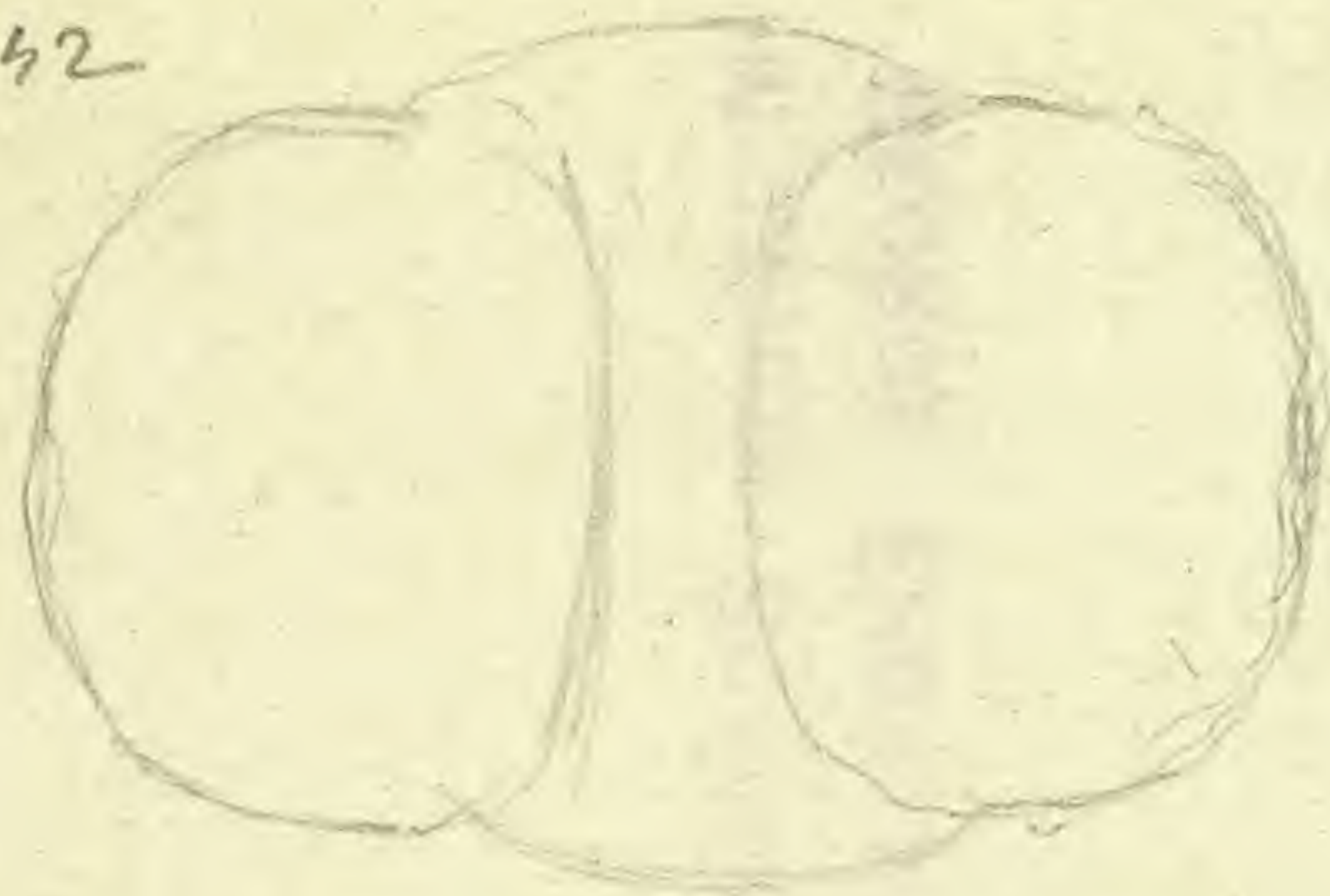
X415

Pinus maritima Lamark
Bois de Boulogne
= *P. Pinaster* Ait.

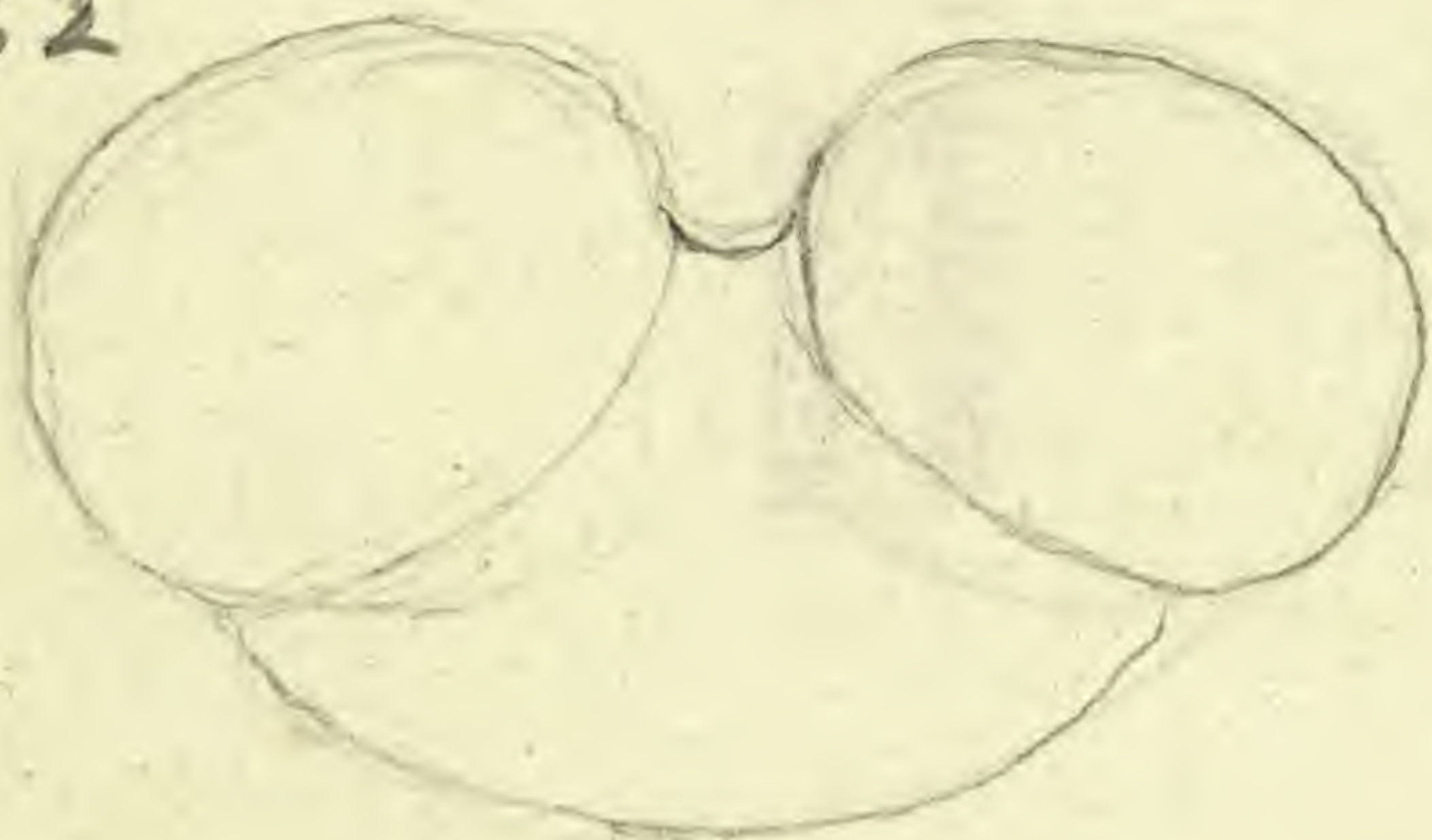
Sept 29. 1863

May 1832

0.042



0.042



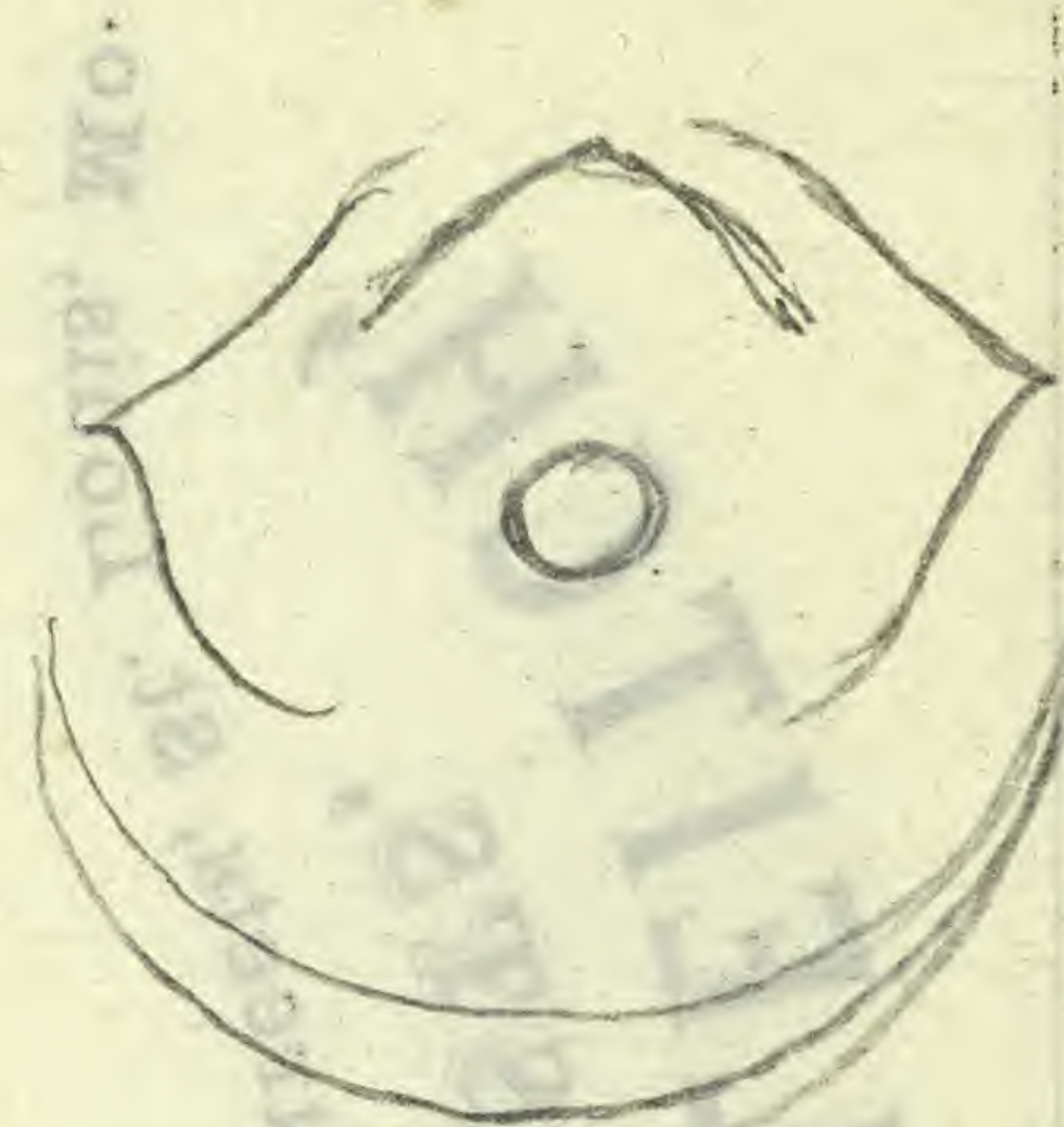
X4



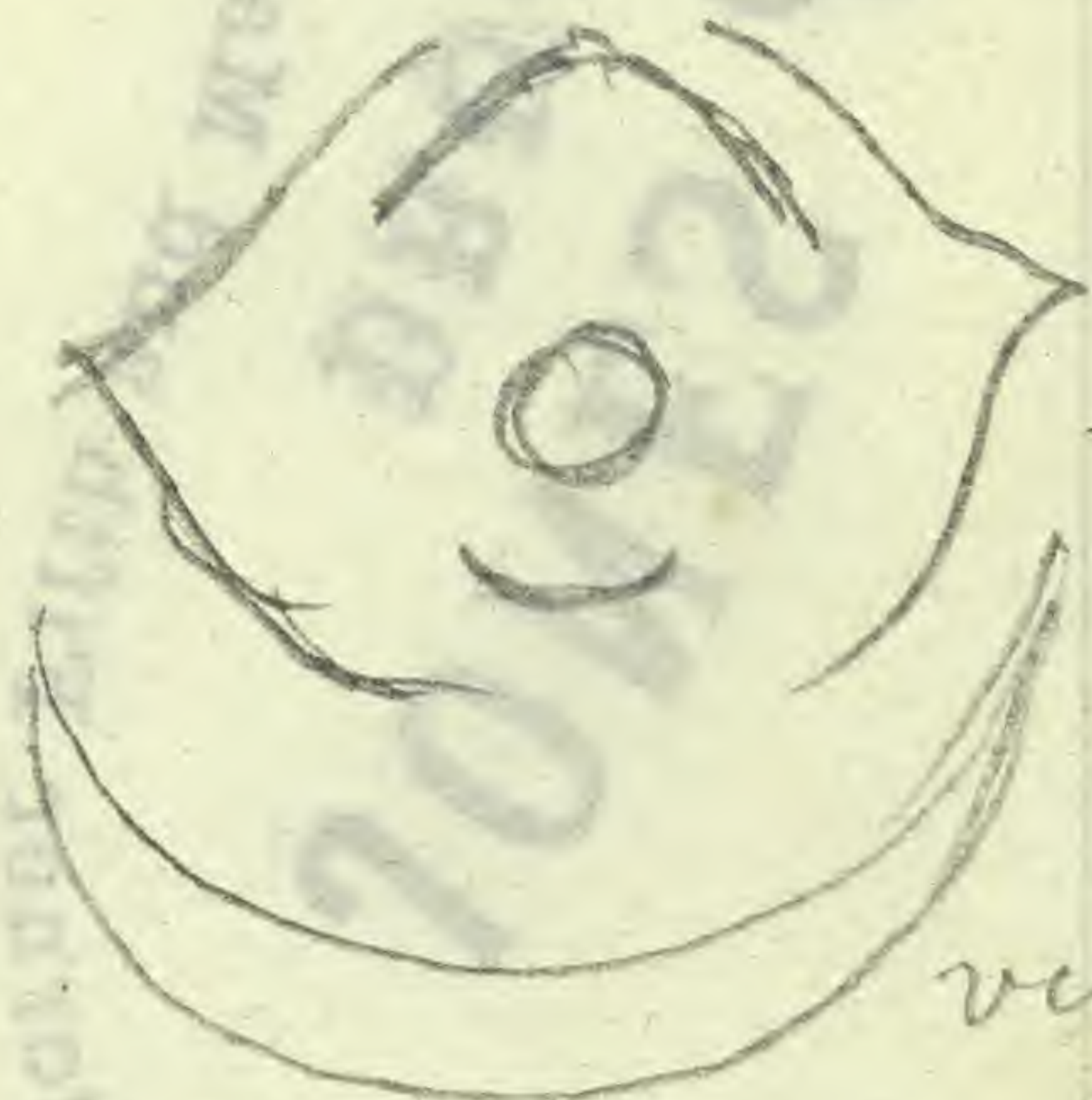
annul stipitate



0.036-0.040-0.043



usual case



very rare

seen once



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